

CALIFORNIA GEOLOGISTS AND GEOPHYSICISTS



Board of Registration for Geologists and Geophysicists

Winter 1998

The Mission of the State Board of Registration for Geologists and Geophysicists is to Continuously Enhance the Quality, Value, and Availability of Geological and Geophysical Services Offered to the People of California.

The Board of Registration for Geologists and Geophysicists protects the health, safety and welfare of the people of California by identifying and licensing qualified individuals and taking enforcement action against those who violate the law.

By (1) ensuring that applicants have appropriate education and experience and (2) verifying through an examination that they meet the minimum level of competency and can be independently responsible for work in the public interest, the licensing



program provides the public a pool of qualified geologists and

MESSAGE FROM THE PRESIDENT



Seena N. Hoose
Board President

geophysicists from which to select a consultant or an employee. The examination also provides the geologist or geophysicist with the opportunity to review and update his or her education 3 to 5 years into his or her professional career.

With the enactment of SB 1984, the Board is in the process of transition to a national examination used by 19 of the 26 states that currently license geologists.

The National Association of State Boards of Geology (ASBOG) examinations will be used no later than the spring of 2000. The Board also will utilize a supplemental examination with the ASBOG examinations, that will test California regulations and seismic and structural knowledge. In January, licensees will have an opportunity to submit questions for the ASBOG examination process.

The regulatory process for implementing a new fee structure, that will allow the use of the ASBOG examination has already begun. The new application fee will be \$250 and the examination fee will be \$300 for the ASBOG examination. These fees reflect actual costs and will eliminate the subsidy for applicants from license renewal fees.

Enforcement provides a check on inadequate work or work not performed in a manner that protects the



CALIFORNIA GEOLOGISTS AND GEOPHYSICISTS

WINTER 1998

IN THIS ISSUE

Message From the President	1
Board Highlights	3
Enforcement Page	5
Board Website	6
Publications	6
Meeting Dates	6
Committees	7
Senate Bill 1984	8
Geophysical Survey	9
Core Curricula	10
Outreach	11
Staff Profile	11
Complaint Disclosure	12
Board Member News	13
Frequently Asked Questions	14
Expired Licenses	17
Contact the Board	24

public health, safety and welfare. The Board is currently in the process of adopting "Professional Standards" regulations that are an enforceable code of ethics based on actions rather than intentions. This is a major step forward and results in clarification of the responsibilities of licensed geologists, including requiring practice within one's area of expertise and other actions that were always appropriate practice of geology and geophysics but which now become enforceable rather than just a desirable way to conduct oneself professionally. Enforcement activities are described elsewhere in this newsletter.

The Board will respond to the Sunset II requirements by the Joint Legislative Sunset Review Committee during 1999. Legislation to continue the Board will be needed in 2000. In excess of 100 geologists provided information to assist in the preparation of the Board's first Sunset report. This winter and spring, you will receive a number of questionnaires both for the Sunset II report and for the Engineering Geology and Hydrogeology examinations validation studies. You can contribute to the continued improvement of the Board's regulation of the practice of geology and geophysics by others by responding promptly to these questionnaires.

How do you find out what is going on at the Board? The Board's website carries the approved minutes of Board and Committee meetings, the calendar of future meetings, the agendas for meetings posted 10 days before meetings, the Directory of Licensees, regulations under development for your comment and the Act and current regulations.

Visit the Board website often to see what is happening and to communicate your ideas to the Board. You are always welcome to telephone the Board and ask to be placed on the agenda mailing list if you do not have Internet access.



Seena N. Hoose

Cover Photo: An erosional landform, Eastern Sierra Nevada Range, by Max Flanery. Provided by the Division of Mines and Geology

CALIFORNIA GEOLOGISTS AND GEOPHYSICISTS WINTER 1998

BOARD HIGHLIGHTS



Paul Sweeney
Executive Officer

It has been a very productive late summer and fall at the Board! Following are some of the major accomplishments since the first of August:

- Passage of SB 1984 (Greene)—This legislation was signed by Governor Pete Wilson and chaptered in Chapter 992, Statutes of 1998, by the Secretary of State on September 30, 1998. This new law becomes effective on January 1, 1999. The Board is developing regulations for its implementation. A request for funding was approved by the Department of Consumer Affairs and submitted to the Department of Finance. If approved by the Legislature and Governor, monies will be available in fiscal year 1999/2000 for implementation of the National Association of State Boards of Geology (ASBOG) Registered Geologist examination in spring 2000.
- Notices of Proposed Regulations to amend the

Board's Disciplinary Guidelines and to adopt Rules of Professional Standards (Code of Ethics) were published for public comment. The Board is conducting a public hearing and may adopt these new regulations at its December 4, 1998, meeting.

- The Fields of Expertise policy document adopted by the Board of Professional Engineers and Land Surveyors (B-PELS) was reopened for modification by a joint task force of members representing B-PELS and the Board's Technical Advisory Committee. Comments of the regulated community were distributed to the task force.
- The Board's Enforcement Oversight Committee held its first meeting at the Board's offices on Saturday, August 22, 1998. The Committee members reviewed the Board's closed enforcement cases.
- An Associate Engineering Geologist was hired. Mary Scruggs was selected after a lengthy interview and selection process. Her responsibilities will be 100% enforcement oriented. Ms. Scruggs spent several years with the California Environmental Protection Agency, Department of Toxic Substances Control, prior to coming to work for the Board.

She is a Registered Geologist with a very impressive work history.

- The Executive Officer again used cite and fine authority. Enforcement activity at the Board is a high priority, and Board staff and the Division of Investigation within the Department of Consumer Affairs are investigating several cases. The use of Technical Experts has increased.
- The Board's Technical Advisory and Examination Committees met jointly on August 7, 1998, to discuss core curricula at academic institutions. The Board now has a plan in place to address the issues that were raised at the meeting. An expanded mailing list has already been initiated for better public awareness of Board activities.
- The fall examinations were held on September 29, 1998, in Burbank and Sacramento. A total of 236 individuals took the four tests: Registered Geologist, Registered Geophysicist, Certified Engineering Geologist, and Certified Hydrogeologist. All proctors and Board staff did an excellent job of ensuring that the examinations went smoothly.

(Continued on page 4)

CALIFORNIA GEOLOGISTS AND GEOPHYSICISTS

WINTER 1998

(Board Highlights, Continued)

- The California Environmental Protection Agency's Office of Environmental Health Hazard Assessment (OEHHA) withdrew its proposed Registered Environmental Assessor II regulations from the Office of Administrative Law on September 14, 1998, only to reissue revised regulations for comments on September 18 without addressing the Board's concerns! The Board responded in writing during the 15-day comment period.
- A new Board staff guidelines manual was prepared for use by the staff. This document took all of the "old" guideline statements and revised them to better address the Board's current needs. The Board approved this improved version of the staff policy document at its October 23, 1998 meeting.
- The Board contracted with the Department of Consumer Affairs, Office of Examination Resources to perform an occupational analysis of Certified Hydrogeologists. The first meeting of Subject Matter Experts was held in Sacramento on September 24 and 25, 1998. We were honored to have eight very distinguished Certified Hydrogeologists come to Sacramento to work on this very important assignment.
- The second Information Bulletin since July 1, 1998, was distributed in early September. This Bulletin announced the reopening of the Fields of Expertise document and the availability of new regulation packages. The Bulletin was also used to assist the Board in updating the contact information for its licensees.
- Discussions began with the Board of Forestry that should result in a memorandum of understanding between the two boards that defines the use of Registered Geologists during the preparation and review of timber harvest plans.
- The Board President, Vice-President and Executive Officer attended the National Association of State Boards of Geology's Annual Meeting in October.
- An agreement was signed with the Office of Emergency Services to enable the Board to use the Emergency Digital Information System (EDIS) in times of natural geologic disasters. Also, our respective websites now are linked.

IS YOUR LICENSE CURRENT?

If your Registered Geologist or Registered Geophysicist license is expired and you are practicing or offering to practice geology or geophysics for others, you are practicing without a license, a violation of the Geologist and Geophysicist Act (Act) and a misdemeanor. The Act provides for a licensee to renew his or her license and/or certification at any time within five years after expiration by paying the current renewal fee and a delinquency fee that is equal to half of the renewal fee.

A licensee may not renew a specialty certification if his or her Registered Geologist license has not been renewed. The licensee is required to reapply and reexamine if the license has lapsed for over five years.

A common reason for an expired license is an unreported change of address. Section 3009 of the California Code of Regulations requires that a licensee must notify the Board within 60 days of any change of address, giving both the old and new addresses.

See pages 17-23 for a list of expired licenses.

CALIFORNIA GEOLOGISTS AND GEOPHYSICISTS WINTER 1998



ENFORCEMENT OVERSIGHT COMMITTEE BEGINS WORK

Betsy Matheison, Chair

The new Enforcement Oversight Committee (EOC) held its first meeting in Sacramento on August 22, 1998. The EOC has two members, Board President Seena N. Hoose and professional member Betsy Mathieson, Committee Chair. The purpose of the Committee is to continually seek ways to improve the Board's enforcement activities and to review closed cases to assist in identifying trends in enforcement activities. At its first meeting, the Committee was able to identify some trends in enforcement activities and situations where enforcement activities might be improved. The EOC also reviews types of complaints filed and confirms that closure of complaints was justified. Committee members were pleased to note that regulatory reviewers are among those filing complaints of unlicensed practice and other violations.



ASSOCIATE ENGINEERING GEOLOGIST HIRED

The Board welcomes Mary Scruggs, Associate Engineering Geologist. Ms. Scruggs' responsibilities will be 100% enforcement oriented. Before coming to the Board, Ms. Scruggs spent several years with the Environmental Protection Agency, Department of Toxic Substances Control. Ms. Scruggs is a Registered Geologist with an impressive work history.

ATTENTION LICENSEES

All geologic reports or reports that contain geologic information such as remedial investigations, site investigations, quarterly monitoring reports and closure reports, must be signed or stamped by a Registered Geologist.

All plans, specifications, reports or documents prepared by a registered geophysicist must be signed or stamped with his or her seal, indicating responsibility for them. Reports by other licensed professionals utilizing the work of a Registered Geophysicist must be signed or stamped by the Registered Geophysicist indicating his or her responsibility for the data or interpretation of the data.

If you are receiving reports that are not in compliance, please notify the Board's Enforcement Unit or file a complaint with the Board.

This is a violation of sections 7835, 7835.1 and 7836 of the Geologist and Geophysicist Act and may be subject to disciplinary action.

CALIFORNIA GEOLOGISTS AND GEOPHYSICISTS

WINTER 1998



THE BOARD ON THE WEB

www.dca.ca.gov/geology

- PUBLICATIONS
- ENFORCEMENT PROGRAM
- REGISTRATION AND CERTIFICATION
- IMPORTANT SITES
- ABOUT THE BOARD
- LEGAL NOTICES
- ANNOUNCEMENTS
- MEETINGS

WHAT'S NEW?

PROPOSED REVISIONS TO THE GEOLOGIST AND GEOPHYSICIST ACT

LINKS TO IMPORTANT SITES

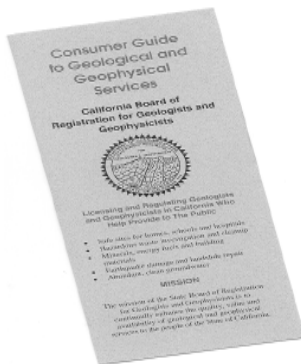
USER-FRIENDLY DIRECTORY OF LICENSEES

COMING SOON!!

**HOT TOPICS –
UPDATES OF THE
HOTTEST BOARD TOPICS**

NEW CONSUMER GUIDE

The Board recently updated its Consumer Guide to Geological and Geophysical Services. The guide provides consumers information on what Registered Geologists, Registered Geophysicists, Certified Engineering Geologists and Certified Hydrogeologists do, as well as tips on hiring a Registered Geologist or Registered Geophysicist.



OTHER BOARD PUBLICATIONS

- Information Bulletins
- Schedule of Events
- Guidelines for Reports
- Disciplinary Guidelines

**To order Board
publications, please call
the Board office or visit
the Board's website.**

1999 Board Meeting Schedule

**February 5 and 6
Sacramento**

**April 23
San Diego**

**June 4 and 5
Sacramento**

**August 13
Los Angeles**

**October 22
Fresno**

**December 3
San Francisco**

EXAMINATION DATES 1999

March 30

September 28

For examination applications and information about examination locations and application deadlines, contact the Board office or visit the Board's website.

CALIFORNIA GEOLOGISTS AND GEOPHYSICISTS

WINTER 1998

COMMITTEES AND THEIR STRUCTURES



Monta Huber
Former Vice-President

As part of the Board's ongoing efforts to revitalize its organizational components as well as promote outreach to its licensees and the public, the Board thoroughly reviewed its committees and their structures. Each committee now has a stated purpose and goals as defined in the Board Member Guidelines and Procedures Manual. The changes described below were made during the last fiscal year. The existing standing Examination, Legislative and Executive Committees were retained as named. The Professional Affairs Committee was retained and renamed the Technical Advisory Committee. A new committee, Enforcement Oversight, was formed to strengthen the Board's enforcement activities. Its purpose is to identify trends in enforcement activities or situations where enforcement procedures might be improved.

Many committee members have served faithfully and diligently for more years than some of them probably care to admit. The Board felt it is time to give some of these members a long deserved rest – in fact, some were requesting it – and at the same time provide opportunities for more licensees and others to be involved. Hence, one major change was to implement term limits for committee members. Terms will overlap to assure continuity and historical perspective and are not lifetime bans on serving further. Except for the Enforcement Oversight Committee, members serve three-year terms (instead of the previous one year) and are limited to two consecutive terms. The Enforcement Oversight Committee members serve two-year terms with a maximum of three terms.

The Examination, Legislative and Technical Advisory Committees currently are composed of voting members from the professional community and ex officio Board members. Ad hoc committees are established as needed.

Committee members are paid only travel expenses per government rules since the Board's Act prohibits per diem payments. One of the changes to the Act being considered is to allow per diem payments.

The Board is pleased that after its recent call for volunteers,

numerous applications were received. While not all applicants could be appointed, applications are kept on file. The Board appreciates the interest shown.

Please browse the Board's website for schedules, agendas and minutes of committee meetings.

EXAMINATION COMMITTEE

John Williams, Ph.D., Chair
Victor B. Cherven, Ph.D.
Scott Hector
Robert Lindblom
Sharon Jasek Reid*
Rebecca A. Sterbentz
Robert H. Sydnor
Ernest Weber

LEGISLATIVE COMMITTEE

Julian (J.C.) Isham, Chair
Philip Chandler
Robert Lindblom*
John G. Parrish
Paul R. Russ*

TECHNICAL ADVISORY COMMITTEE

Frank Kresse, Chair
George E. Brogan
David Cummings*
Robert A. Larson
Karen Melikian*
Carlene Merey
Jerome Nelson
Lyne Perry
Donna M. Thompson

*Ex-officio member

CALIFORNIA GEOLOGISTS AND GEOPHYSICISTS WINTER 1998

SB 1984



Julian (J.C.) Isham, Chair
Legislative Committee

The passage of Senate Bill 1984 (SB 1984) was a long process. It started at the August 15, 1997, Board meeting in Sacramento when the Board directed me, as Chair of its Legislative Committee, to seek an author for a bill to amend the fee structure of the Geologist and Geophysicist Act. The initial proposed fee amendment only added a \$250 examination fee to cover the Board's cost to administer its current examinations.

With these instructions, I made some initial contacts with staff members of both Democratic and Republican legislators. They advised me that a fee increase bill would be very difficult to enact. It was suggested that with a legislative author who is either a conservative democrat or liberal Republican, both political sides of the Legislature would vote for the bill. I also wanted the author to be a member of either the Senate Business and

Professions Committee or the Assembly Consumer Protection and Governmental Efficiency and Economic Development Committee, preferably the chair. However, no such author could be convinced to carry our bill. The first five months of my legislative lobbying were unsuccessful.

Unable to convince a senior Senator or Assembly Member on a select committee to author our bill, I turned to Senator Leroy Greene, Chair of the Joint Legislative Sunset Review Committee (JLSRC). Working very closely with his senior consultant Bill Gage, we were able to draft legislation that Senator Greene was willing to put his name on and fight for.

SB 1984 was introduced in the Senate on February 19, 1998. This first version required that the Board commence giving a national geology examination as directed by the JLSRC in 1996. This was a very strong point made by the JLSRC and a critical issue to the eventual passage of the bill. On the Senate side of the Legislature, the bill was heard in appropriate committees and revised several times as a result of comments received. Board President Seena N. Hoose and I gave committee testimony as the bill progressed through the Senate.

The bill made it to the Assembly

on May 27, 1998; and as in the Senate, it was heard and revised a few more times. Ms. Hoose, Paul Sweeney, Board Executive Officer, and I testified in support of the bill in the Assembly.

Many members of the profession and several professional societies made a strong lobbying effort. The Association of Engineering Geologists was one of the strongest supporters of the bill. Judith Wolen, its lobbyist, was very influential in getting this bill passed. We also received dozens of support letters from the profession. These letters were a key factor in winning support from both political parties.

The bill was passed by the Assembly on August 25, 1998, concurred by the Senate on August 27, 1998, and sent to the Governor on September 3, 1998. While it was on the Governor's desk, he received many letters of support that showed the profession's strong support of the bill. The Governor signed the bill, and it was chaptered by the Secretary of State on September 30, 1998.

The job of the Board and the Legislative Committee was made easier by the strong support they received from the profession. The passage of SB 1984 was an excellent example of the democratic process in action. Thank you for your support.

SB 1984 text on page 10-11.

CALIFORNIA GEOLOGISTS AND GEOPHYSICISTS

WINTER 1998

GEOPHYSICAL SURVEY



Carlene Merey
Technical Advisory Committee

On June 2, 1997, the Board sent 5,558 informational questionnaires to professionals in the geotechnical engineering, geology and geophysics fields to evaluate the continued registration of geophysicists. 2,023 questionnaires were returned! The 35-part questionnaire prepared by the Board's Technical Advisory Committee (TAC) asked about education, personal and company experiences, area of application, reasons for registration, current regulation, professional conduct, litigation and legal costs and impact on the health, safety and welfare of the public.

The questions were designed to assist us in answering:

- Is there clear and convincing need to regulate the profession of geophysics?
- Is the public health, safety and welfare impact great enough to require regulations as it is in other geotechnical professions?

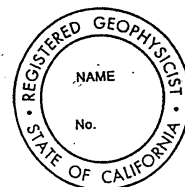
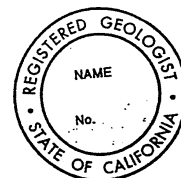
- Why is California currently the only state that licenses geophysicists?
- Are the clients of geophysicists sophisticated and knowledgeable enough to hire competent geophysicists?

After tabulation and review of the results, we reached some important conclusions and identified several other issues. The TAC and the Board will investigate some of these issues further, especially where they relate to enforcement and public outreach.

Major conclusions are that 65 percent of all respondents and 80 percent of geologists support licensure of geophysicists. Although there are a number of reasons, in general, respondents believe that licensing provides a method of selecting competent, credible and responsible practitioners in this technically complex field and offers a means of professional recourse on a wide variety of civil projects affecting the health, safety and welfare of the people of California, a state with significant potential for tectonic activity.

SEALS

It has come to the Board's attention that some Registered Geologists and Registered Geophysicists are not using the seal authorized by the Board. Section 7852 of the Geologist and Geophysicist Act states that each Registered Geologist, Registered Geophysicist, certified specialty geologist or certified specialty geophysicist may obtain a seal of the design authorized by the Board, bearing his or her name, license number and title. Section 3008 of the California Code of Regulations specifies that the seal must not be less than 1-1/2 inches in diameter and must be one of the three following designs:



CALIFORNIA GEOLOGISTS AND GEOPHYSICISTS

WINTER 1998

LICENSING REQUIREMENTS



Frank Kresse, Chair
Technical Advisory Committee

Many geology students are uncertain about employment after graduation. Many jobs ultimately will require licensing to move upward in an organization. This is not only true in California but in all 26 states with licensing requirements.

The Geologist and Geophysicist Act requires three steps to become licensed as a Registered Geologist or Registered Geophysicist:

- minimum educational requirements
- minimum experience requirements
- passing a written examination

The Board has developed the following list of academic courses that it believes can best prepare students to pass the licensing examination:

- Physical geology
- Mineralogy
- Petrology (and/or Petrography)
- Structural Geology
- Field Geology

Of course, if a student has a clear goal in a specialty, such as mining geology, petroleum geology, engineering geology, etc., certain additional courses would apply.

The Board is developing the "Students' Guide to Professional Licensure" that will give students information about the Board, requirements for licensure as a Registered Geologist or Registered Geophysicist, the examination and the benefits of licensure in California. The guide will be distributed to students at Board outreach presentations and made available to college and university geology department offices.

LIBRARY REQUESTS

The Board is establishing a reference library and requests recommendations of published materials and donations of books, maps or subscriptions to publications. Please write or e-mail recommendations to the Board. Please send books or other materials to the Board office.

PROPOSED REVISIONS TO THE GEOLOGIST AND GEOPHYSICIST ACT

The Board held its final public information forum to receive comments regarding revisions to the Geologist and Geophysicist Act (Act), at the October 23, 1998, Board meeting. The proposed revisions to the Act are currently being reviewed by the Department of Consumer Affairs, Legislative and Regulatory Review, and will be submitted to the Legislature for the 1999/2000 session.

AMENDMENTS TO CALIFORNIA CODE OF REGULATIONS

The Board held public hearings on October 23, 1998 to amend California Code of Regulations sections 3061, Criteria for Sentencing or Rehabilitation, and 3064, Disciplinary Guidelines, and to adopt section 3065, Professional Standards - (Code of Ethics)

CALIFORNIA GEOLOGISTS AND GEOPHYSICISTS WINTER 1998

FLOOD FORUMS



Enforcement Analyst Adam Mankoski provides information to flood victims at Sacramento's Arden Fair Mall Flood Forum in February.

Immediately following the severe storms in California during January and February, the Board participated in flood forums sponsored by local ABC television affiliates throughout the state. The forums gave the public the opportunity to obtain critical information about rebuilding after the disasters. Adam Mankoski, Enforcement Analyst, distributed the Board's report writing guidelines and *Consumer Guide to Geological and Geophysical Services* and answered questions about hiring a Registered Geologist or Registered Geophysicist.

The Board has strengthened its enforcement outreach program to the profession and the public. The Board is available for presentations to government agencies, associations, public forums and academic institutions. To schedule a presentation, please contact the Board's Enforcement unit.

STAFF PROFILE

MARY LYNN
FERREIRA
Office Manager



Mary Lynn Ferreira began her career with the Department of Consumer Affairs in August 1966 when it was the Department of Vocational Standards. Ms. Ferreira has diligently served the public and the Department as an employee of the Medical Board of California, Board of Optometry, Division of Administration, Division of Consumer Services and the Structural Pest Control Board. Before coming to the Board, Ms. Ferreira was Registrar of the Structural Pest Control Board for 13 years.

As Office Manager, Ms. Ferreira manages the administrative functions of the Board and works with the Examination Committee to assemble and administer the Board's twice-yearly examinations.

USE OF LICENSE NUMBER

The Board encourages the use of the Registered Geologist, Registered Geophysicist and certified specialty geologist license numbers on business cards, letterhead and in yellow page advertising. In addition, the Board recommends that the license numbers of individuals associated with Statements of Qualifications and proposals used as part of bidding processes include the license number of the Registered Geologist or Registered Geophysicist.

STAFF

Paul Sweeney
Executive Officer

Mary Scruggs
Associate Engineering Geologist

Mary Lynn Ferreira
Office Manager

Adam Mankoski
Enforcement Analyst

Robert Etzold
Examination Coordinator

Pamela Hopper
Office Technician

Diane Cortopassi
Office Assistant

CALIFORNIA GEOLOGISTS AND GEOPHYSICISTS

WINTER 1998

COMPLAINT DISCLOSURE POLICY

INTRODUCTION

The Board of Registration for Geologists and Geophysicists' (Board) complaint disclosure policy was developed to provide the public with information regarding complaints and disciplinary actions against licensed geologists, licensed geophysicists and unlicensed individuals.

INFORMATION TO BE RELEASED

Upon request, the Board provides information regarding closed actionable complaints, complaints closed for no violation or insufficient evidence and disciplinary action against licensees and unlicensed individuals that were closed within the preceding three years.

Upon request, the Board provides information regarding all accusations/statements of issues once the accusation/statement of issues is served.

CLOSED ACTIONABLE COMPLAINTS

Closed actionable complaints are defined as complaints that the Board has (1) investigated, (2) determined that there was a violation of the laws regulating the practice of geology or geophysics and (3) taken nondisciplinary action (warning letter/cease and desist) or (4) taken disciplinary action (citation and/or fine, accusation, statement of issues).

The Board will disclose **only** the following information regarding closed actionable complaints:

- Name of licensee and license number
- Number of complaints
- Nature of the complaint
- Action taken
- Result(s) of action
- Date of closure

COMPLAINTS CLOSED FOR NO VIOLATION OR INSUFFICIENT EVIDENCE

Complaints closed for no violation or insufficient evidence are defined as complaints that the Board has investigated and (1) determined that there was no violation of the laws regulating the practice of geology or geophysics or (2) that

there was insufficient evidence to determine if a violation of the laws regulating the practice of geology or geophysics has occurred.

The Board discloses **all** of the following information about complaints closed for no violation or insufficient evidence:

- Name of licensee and license number
- Number of complaints
- Nature of the complaint
- Reason for closure
- Date of closure

OPEN COMPLAINTS

The Board discloses information regarding open complaints only if an accusation or statement of issues has been filed and served.

Enforcement staff makes the following disclosure statement:

"The Board has (number) complaint(s) open against this individual. The matter(s) has been forwarded to the Attorney General's Office and an accusation/statement of issues has been served. There are no confirmed violations of the Geologist and Geophysicist Act. A copy of the accusation/statement of issues is available by submitting a written request to the Board."

Staff does not provide any additional information.

CALIFORNIA GEOLOGISTS AND GEOPHYSICISTS WINTER 1998

BOARD ELECTIONS

The Board elected Seena N. Hoose as President and Karen Melikian as Vice President at its August 14, 1998, meeting. Ms. Hoose was appointed as the professional geologist member of the Board by Governor Wilson in September 1993. She was elected to her first term as Board President in August 1996. Ms. Melikian served as a public member of the Board from July 1989 to June 1995 and was reappointed to the Board in June 1997 by Governor Pete Wilson. Congratulations Seena and Karen!!!

BOARD MEMBERS

SEENA N. HOOSE
PRESIDENT

KAREN MELIKIAN
VICE PRESIDENT

DAVID CUMMINGS

DORENE DOMINGUEZ

ROBERT LINDBLOM

SHARON JASEK REID

PAUL R. RUSS

NEW BOARD MEMBERS

Governor Pete Wilson appointed David Cummings as the professional geophysicist member of the Board and Dorene Dominguez as a public member effective July 1, 1998.

Dr. Cummings, of Los Angeles, retired in October 1998 from Science Applications International Corporation where he was senior geologist and senior geophysicist, a position he held since 1988. Previously, he was Director of the Geophysics Division at Leighton and Associates, Inc. (1984-1988), President and Chairman of the Board of Directors of Ryland-Cummings, Inc. (1973-1983), Associate Professor and Chair of the Department of Geology, Occidental College (1967-1984) and employed by the U.S. Geological Survey (1962-1967). Mr. Cummings is a life member of the American Geophysical Union and a member of the near-surface section of the Society of Exploration Geophysicists. From 1984 to 1987, he was a member of the Professional Affairs Committee of the Board. He also served as a volunteer on the crisis response team with the Harbor Division of the Los Angeles Police Department.



Dorene Dominguez
Board Member

Ms. Dominguez, of Los Angeles, has served as the Vice President of Vanir Construction Management since January 1991. Ms. Dominguez serves on the Boards of Directors of Vanir Group of Companies, Vanir Commercial Brokerage, Vanir Construction Company and Vanir Communications. Ms. Dominguez is a member of the Latin Business Association, the Society of Hispanic Engineers and the Los Angeles Notre Dame Club.

**The Board welcomes both
new members!**



FIRST BOARD - 1969

Left to right: Will Peak (1st Board President), John Curran, Ian Campbell, Ted Bear, Glenn Brown, Gardner Pitman, Joe Crosby

CALIFORNIA GEOLOGISTS AND GEOPHYSICISTS

WINTER 1998

GEOLOGIST AND GEOPHYSICIST ACT MOST FREQUENTLY ASKED QUESTIONS

WHO IS REQUIRED TO BE REGISTERED?

Section 7832 B&P Code - An individual is required to be registered if he or she practices or offers to practice geology or geophysics for others.*

ARE SUBORDINATES WORKING UNDER THE DIRECT SUPERVISION OF A REGISTERED GEOLOGIST OR REGISTERED GEOPHYSICIST REQUIRED TO BE REGISTERED?

Section 7837 B&P Code - No. However, these employees are not permitted to practice geology or geophysics in his or her own right or use the title "Registered Geologist" or "Registered Geophysicist."

ARE GEOLOGISTS OR GEOPHYSICISTS WORKING FOR GOVERNMENTAL AGENCIES REQUIRED TO BE REGISTERED?

*Section 3003 (f)(1), Section 3003 (f)(2) CCR** - The practice of geology or geophysics for others includes the preparation of geological and geophysical reports, documents or exhibits by employees of any governmental agency in California, not federal, when such reports are disseminated or made available to the public in such a manner that the*

public may reasonably be expected to rely thereon or be affected thereby.

ARE INDIVIDUALS WHO PREPARE IN-HOUSE GEOLOGICAL OR GEOPHYSICAL REPORTS REQUIRED TO BE REGISTERED?

Section 3003 (f)(3) CCR - Geological and geophysical reports prepared for in-house use are not considered the practice of geology or geophysics for others unless and until such reports are disseminated or made available to the public in such a manner that the public may reasonably be expected to rely thereon or be affected thereby.

DO GEOLOGICAL AND GEOPHYSICAL REPORTS HAVE TO BE SIGNED AND STAMPED?

Section 7835, 7835.1 B&P Code - All geological and geophysical reports must be signed or stamped by a registered person, either of which will indicate his or her responsibility for them.

DO PARTNERSHIPS OR CORPORATIONS WHOSE PRIMARY BUSINESS IS GEOLOGY OR GEOPHYSICS REQUIRE A LICENSED PERSON?

Section 7833 B&P Code - Yes. In a partnership or corporation whose primary activity consists of geological or geophysical services, at least one partner or officer must be registered.

CAN A COMPANY WHOSE BUSINESS IS NOT THE PRACTICE OF GEOLOGY OR GEOPHYSICS HIRE REGISTERED INDIVIDUALS?

Section 7834 B&P Code - Yes. A company can hire a Registered Geologist or Registered Geophysicist to perform professional services in geology or geophysics that is incidental to the conduct of their business.

CAN A COMPANY WHOSE BUSINESS IS NOT THE PRACTICE OF GEOLOGY OR GEOPHYSICS ADVERTISE TO PROVIDE GEOLOGICAL OR GEOPHYSICAL SERVICES TO OTHERS?

Section 7834 B&P Code - No. Advertising to provide geological or geophysical services indicates that a company is able to provide 100%, if necessary, of a client's needs for geological or geophysical services. The geological or geophysical services must be incidental to the conduct of business.

ARE ANY PROFESSIONS EXEMPT FROM THE PROVISIONS OF THE ACT?

*Section 7836 B&P Code - Federal employees
Section 7837 B&P Code - Subordinate employees
Section 7838 B&P Code - Registered Civil Engineers and petroleum engineers*

**Business and Professions Code*

*** California Code of Regulations*

CALIFORNIA GEOLOGISTS AND GEOPHYSICISTS WINTER 1998

SENATE BILL 1984

BILL NUMBER: SB 1984
CHAPTERED
BILL TEXT

CHAPTER 992

FILED WITH SECRETARY OF
STATE SEPTEMBER 30, 1998

APPROVED BY GOVERNOR
SEPTEMBER 29, 1998

PASSED THE SENATE
AUGUST 27, 1998

PASSED THE ASSEMBLY
AUGUST 24, 1998

AMENDED IN ASSEMBLY
JULY 8, 1998

AMENDED IN ASSEMBLY
JUNE 23, 1998

AMENDED IN SENATE
MAY 12, 1998

AMENDED IN SENATE
MAY 4, 1998

AMENDED IN SENATE
APRIL 15, 1998

INTRODUCED BY Senator Greene
FEBRUARY 19, 1998

An act to amend Sections 7841 and 7887 of the Business and Professions Code, relating to regulated professions, and making an appropriation therefor.

LEGISLATIVE COUNSEL'S DIGEST

SB 1984, Greene. State Board of Registration for Geologists and Geophysicists.

(1) Existing law requires specified qualifications for registration as a geologist that include successfully passing a written examination.

This bill additionally would require that written examination to incorporate a national examination for geologists, and would also require passage of a supplemental California specific examination, as specified.

(2) Existing law specifies the maximum registration and renewal fees that may be fixed by the State Board of Registration for Geologists and Geophysicists and prohibits the board from increasing those fees beyond the amount fixed by the board as of January 1, 1993.

This bill would increase the maximum fee for the filing of an application for registration as a geologist or geophysicist or certification as a specialty geologist or geophysicist and for administration of the examination from \$100 to \$250 and would delete the prohibition against increasing this fee. The bill also would impose an examination fee not to exceed \$300 for each applicant for registration as a geologist and an examination fee not to exceed \$100 for each applicant for registration as a geophysicist or certification as an engineering geologist or a hydrogeologist.

(3) Existing provisions of the Business and Professions Code continuously appropriate the moneys in the Geology and Geophysics

Fund, a special fund.

Because this bill would increase the amount of moneys in the fund, it would make an appropriation.

Appropriation: yes.

THE PEOPLE OF THE STATE OF
CALIFORNIA DO ENACT AS
FOLLOWS:

SECTION 1. Section 7841 of the Business and Professions Code is amended to read:

7841. An applicant for registration as a geologist shall have all the following qualifications:

(a) Not have committed any acts or crimes constituting grounds for denial of licensure under Section 480.

(b) Meet one of the following educational requirements fulfilled at a school or university whose geological curricula meet criteria established by rules of the board:

(1) Graduation with a major in geology.

(2) Completion of 30 semester units in geological science courses leading to a major in geology, of which at least 24 units are in the third or fourth year, or graduate courses.

(c) Have at least seven years of professional geological work which shall include either a minimum of three years of professional geological work under the supervision of a registered geologist or a registered civil or petroleum engineer, except that prior to July 1, 1970, professional geological work shall qualify under this subdivision if it is under the supervision of a qualified geologist or a registered civil or petroleum engineer, or a minimum of five years' experience in responsible

(Continued on page 16)

CALIFORNIA GEOLOGISTS AND GEOPHYSICISTS WINTER 1998

(Senate Bill 1984, Continued)

charge of professional geological work. Professional geological work does not include routine sampling, laboratory work, or geological drafting.

Each year of undergraduate study in the geological sciences shall count as one-half year of training up to a maximum of two years, and each year of graduate study or research counts as a year of training.

Teaching in the geological sciences at college level shall be credited year for year toward meeting the requirement in this category, provided that the total teaching experience includes six semester units per semester, or equivalent if on the quarter system, of third or fourth year or graduate courses.

Credit for undergraduate study, graduate study, and teaching, individually, or in any combination thereof, shall in no case exceed a total of four years towards meeting the requirement for at least seven years of professional geological work as set forth above.

The ability of the applicant shall have been demonstrated by the applicant having performed the work in a responsible position, as the term "responsible position" is defined in regulations adopted by the board. The adequacy of the required supervision and experience shall be determined by the board in accordance with standards set forth in regulations adopted by it.

(d) Successfully pass a written examination that incorporates a national examination for geologists created by a nationally recognized entity approved by the board, and a supplemental California specific examination. The

California specific examination shall test the applicant's knowledge of state laws, rules and regulations, and of seismicity and geology unique to practice within this state. The board shall use the national examination on or before June 30, 2000.

SEC. 2. Section 7887 of the Business and Professions Code is amended to read:

7887. The amount of the fees prescribed by this chapter shall be fixed by the board in accordance with the following schedule:

(a) The fee for filing each application for registration as a geologist or a geophysicist or certification as a specialty geologist or a specialty geophysicist and for administration of the examination at not more than two hundred and fifty dollars (\$250).

(b) The registration fee for a geologist or for a geophysicist and the fee for the certification in a specialty shall be fixed at an amount equal to the renewal fee in effect on the last regular renewal date before the date on which the certificate is issued, except that, with respect to certificates which will expire less than one year after issuance, the fee shall be fixed at an amount equal to 50 percent of the renewal fee in effect on the last regular renewal date before the date on which the certificate is issued. The board may, by appropriate regulation, provide for the waiver or refund of the initial certificate fee where the certificate is issued less than 45 days before the date on which it will expire.

(c) The duplicate certificate fee at not more than six dollars (\$6).

(d) The temporary registration fee

for a geologist or for a geophysicist at not more than eighty dollars (\$80).

(e) The renewal fee for a geologist or for a geophysicist shall be fixed by the board at not more than two hundred dollars (\$200).

(f) The renewal fee for a specialty geologist or for a specialty geophysicist at not more than fifty dollars (\$50).

(g) Notwithstanding Section 163.5, the delinquency fee for a certificate is an amount equal to 50 percent of the renewal fee in effect on the last regular renewal date.

(h) The fees fixed by the board pursuant to subdivisions (e) and (f), as of January 1, 1993, shall not be increased.

(i) Each applicant for registration as a geologist shall pay an examination fee fixed by the board at an amount equal to the actual cost to the board for the purchase of a national examination for geologists created by a nationally recognized entity approved by the board, including a supplemental California specific examination, and shall not exceed three hundred dollars (\$300).

(j) Each applicant for registration as a geophysicist or certification as an engineering geologist or certification as a hydrogeologist shall pay an examination fee fixed by the board at an amount equal to the actual cost to the board for the development and maintenance of the written examination, and shall not exceed one hundred dollars (\$100).

CALIFORNIA GEOLOGISTS AND GEOPHYSICISTS

WINTER 1998

EXPIRED LICENSES

GEO 2320	ABBOTT	ROBERT	W		GEO 6275	BOWEN	TIMOTHY	DANA	
GEO 2053	ADAMS	GORDON	E		GEO 2197	BOWERS	SYDNEY	D	
GEO 2902	AKERS	ROBERT	J		GEO 692	BOWMAN	JOHN	C	JR
GEO 3899	ALEXANDER	ROGER	GORDON	JR	GEO 1804	BOYCE	MALCOLM	W	
GEO 265	ALLEN	CLARENCE	RODERIC		GEO 3761	BOYD	MILLARD	DANIEL	
GEO 282	ALLEN	DENNIS	RAY		GEO 3546	BRAAM	PIETER	H M	
GEO 1667	ALLEN	HAROLD	A		GEO 844	BRADY	THOMAS	JAMES	
GEO 2277	ALPAY	O	A		GEO 1259	BREITSPRECHER	CHARLES	HEPNER	
GEO 4113	AMES	ROGER	LEE		GEO 3140	BREWER	WILLIAM	A	
GEO 6629	AN	LINJI	Y.		GEO 2124	BROWN	BERT	N	
GEO 4306	ANANIA	KARL	JOHN		GEO 3027	BROWN	DONALD	J	
GEO 2522	ANDERSON	DAVID	N		GEO 5517	BROWN	EDWIN	STEPHEN	
GEO 1538	ANDERSON	PAUL	L		GEO 5279	BROWN	GEORGE	E	
GEO 2257	ANGELL	GLENN	T		GEO 1671	BROWN	JAMES	H	JR
GEO 2840	ANGERER	RICHARD	H		GEO 2023	BROWN	RALPH	S	
GEO 5309	ANTTONEN	GARY	J		GEO 641	BROWNE	HARRY	LA SHELLE	
GEO 1957	APPUHN	RICHARD	A		GEO 4970	BRYAN	TIMOTHY	MICHAEL	
GEO 2555	ARCHIBALD	JOHN	C	JR	GEO 1942	BUDO	SHORO		
GEO 1341	ARNDT	JOSEPH	F		GEO 6141	BUENAVENTURA	ALFREDO	CAPISTRANO	
GEO 6036	ARNOLD	ANN	COMPTON		GEO 5596	BUHR	GROVER	SAYLOR	
GEO 1712	ATKINSON	STERLING	K	JR	GEO 1183	BURK	GERALD	DEAN	
GEO 4637	AUBRY	BRIAN	FRANCIS		GEO 3962	BUSBY	EDWARD	GOODWIN	
GEO 2007	AXTELL	LAWRENCE	H		GEO 2108	BUSH	JOHN	B	
GEO 428	AYRES	SAMUEL	DAVID		GEO 3633	BUSHNELL	MARJORIE	MAY	
					GEO 2174	BYRD	WILLIAM	M	
GEO 3381	BADGETT	JACK	S		GEO 380	CABEEN	WILLIAM	ROSS	
GEO 932	BAILEY	EDWARD	THOMAS		GEO 660	CAMERON	THOMAS	WILLIAM	
GEO 3712	BAIN	GEORGE	LAWSON		GEO 3122	CAMPBELL	DOUGLAS	DEAN	
GEO 175	BALDWIN	THOMAS	ARMET		GEO 405	CANNING	CHARLES	GILBERT	SR
GEO 3401	BALLERINO	JAMES			GEO 1455	CANUT	AUGUSTIN	LOUIS	
GEO 3105	BARDGETT	JOHN	W		GEO 4132	CARPENTER	GENE	C	
GEO 5066	BARLOW	STEVEN	GUS		GEO 4906	CARTER	JAY	DEAN	
GEO 1250	BARNARD	RALPH	MERRILL		GEO 3886	CASS	JOHN	T	
GEO 1156	BARNES	BURTON	B		GEO 781	CATICH	JACK	GEORGE	
GEO 3148	BARNES	JOE	GILBERT		GEO 382	CEBELL	WARREN	ASHLEY	
GEO 2820	BARTLETT	RONALD	B		GEO 2127	CHAPMAN	WILLIAM	M	
GEO 6468	BATATIAN	L.	DARLENE		GEO 3757	CHATOIAN	JOHN	MIHRAN	
GEO 1919	BATEMAN	RICHARD	L		GEO 510	CHILINGAR	GEORGE	V	
GEO 3725	BAUER	WILLIAM	EARL		GEO 3125	CHINN	WILLIAM		
GEO 1339	BEAN	ROBERT	T		GEO 3945	CHULICK	JOHN	JOSEPH	
GEO 1793	BEARNTH	ROBERT	E		GEO 1858	CILOGLU	ISMAIL		
GEO 2095	BEATIE	ROBERT	L		GEO 255	CILWECK	BLASE	ANTHONY	
GEO 136	BECKER	BURTON	CLAIRE		GEO 104	CLARK	WILLIAM	BULLOCK	
GEO 782	BEDFORD	JOHN	WILLIAM		GEO 2509	CLEVELAND	GEORGE	B	
GEO 683	BEER	LAWRENCE	PETER		GEO 3205	CLIFFORD	HAROLD	JOSEPH	
GEO 1591	BEESON	MELVIN	H		GEO 455	CLOSS	JOHN	DAVID	
GEO 925	BELL	GORDON	LEON		GEO 1831	COATES	MARY	S	
GEO 1603	BENHAM	JACK	L		GEO 4297	COFFEY	NICHOLAS	WELLMAN	
GEO 6231	BENSON	CRAIG	STEVEN		GEO 1602	CONDON	FRANK	E	
GEO 5275	BENSON	DAVID	ANDREW		GEO 55	CONN	WILLIAM	VINCENT	
GEO 286	BENSON	LAWRENCE	IVES		GEO 119	CONTENT	CHARLES	S	
GEO 538	BERINGER	ROBERT	OLIVER		GEO 1738	COOK	RUFUS	E	
GEO 3537	BERKSTRESSER	CHARLES	F	JR	GEO 3470	CORDELL	DONALD	ALLEN	
GEO 1590	BERRY	ROBERT	G		GEO 429	CORDOVA	SIMON		
GEO 3903	BERRY	WILLIAM	R	II	GEO 1303	CORNELIUS	KENNETH	DONALD	
GEO 3693	BICE	DAVID	C		GEO 304	CRAWFORD	CORNELIUS	B	JR
GEO 4852	BISHOP	DONALD	THOMAS		GEO 6367	CREED	ROBERT	JOHN	JR.
GEO 2407	BLYTHE	CARROL	J		GEO 2604	CROFT	MACK	G	
GEO 1178	BOCK	CARL	GOTTLIEB		GEO 3624	CROTSEY	THOMAS	ALLEN	
GEO 4775	BODNER	DANIEL	PAUL		GEO 4056	CROUCH	JAMES	K	
GEO 298	BOLLWINKEL	DONALD	H		GEO 3103	CURRAN	THEODORE	A	
GEO 1204	BOOST	ALBERT	THOMAS		GEO 2930	CURTIS	GARNISS	HEARFIELD	
GEO 1879	BOSHARD	JAMES	R		GEO 1009	CUTCLIFFE	WILLIAM	EDWARD	
GEO 979	BOWEN	OLIVER	EARLE	JR	GEO 3126	DAETWYLER	CALVIN	CROWELL	
					GEO 6384	DAI	JIANPING		
					GEO 2869	DALRYMPLE	G	BRENT	

CALIFORNIA GEOLOGISTS AND GEOPHYSICISTS

WINTER 1998

GEO 3276	DARROW	ARTHUR	CHARLES	GEO 825	FRITTS	PAUL	JAN
GEO 307	DAVIESS	STEVEN	NORMAN	GEO 4912	FULLER	DAVID	MATTHEW
GEO 2473	DAVIS	DUDLEY	L				
GEO 3754	DAVIS	MARIE	LOUISE EISE				
GEO 1324	DAVIS	RICHARD	S				
GEO 802	DAVIS	RICHARD	WARREN	GEO 1192	GAINES	GILBERT	
GEO 667	DAVIS	STANLEY	NELSON	GEO 2644	GAMBLE	JAMES	H
GEO 506	DAY	DAVID	W	GEO 75	GANOPOLE	GERALD	
GEO 5627	DE FOREST	ALFRED	V	GEO 1734	GARBER	ALLEN	J JR
GEO 5244	DENNIS	GEORGE	MICHAEL	GEO 6069	GEIGER	BETH	CAROL
GEO 3487	DIBBLEE	THOMAS	WILSON	GEO 57	GELNETT	RONALD	HOWARD
GEO 3960	DIVIS	ALLAN	FRANCIS	GEO 4482	GIBSON	RONALD	C
GEO 411	DIXON	NORMAN	ARTHUR	GEO 266	GIRARD	LEWIS	VICTOR
GEO 1990	DIXON	RONALD	L	GEO 3030	GLEN	WILLIAM	
GEO 1568	DOBKINS	JAMES	E	GEO 1564	GODWIN	LARRY	H
GEO 3742	DOBSON	BENJAMIN	MARK	GEO 4174	GOMEZ	PATRICIA	M
GEO 2784	DODGE	FRANKLIN	CHARLES-WALT	GEO 5229	GOODFELLOW	ROBERT	W
GEO 408	DOLGOFF	ABRAHAM		GEO 3671	GORDON	ARTHUR	JAY
GEO 507	DONDANVILLE	RICHARD	FRED	GEO 4391	GRAFF	DANIEL	ADAM
GEO 2157	DOUGLAS	RICHARD	F	GEO 384	GRAFF	LEROY	DALE
GEO 1868	DOWELL	DOUGLAS	M	GEO 1888	GREARSON	LLOYD	S
GEO 3809	DRAGAN	DANNY	C	GEO 1761	GREEN	E	RALPH
GEO 3278	DRAKE	ROBERT	EDWARD	GEO 1316	GREEN	HOLLIS	CLINTON
GEO 308	DREYER	ROBERT	MARX	GEO 1166	GREEN	JOSEPH	PAUL
GEO 2266	DUKES	WILLIAM	J	GEO 4508	GREEN	MICHAEL	HAYS
GEO 690	DUNLAP	JOHN	THEODORE	GEO 5893	GRINYER	WALTER	B
GEO 495	DUNN	ROBERT	H	GEO 2347	GROMME	C	SHERMAN
GEO 4991	DUNTON	JOHN	CHRISTOPHER	GEO 2612	GROOM	JAMES	E
GEO 3211	DURHAM	JOHN	WYATT	GEO 496	GROTE	FRED	RANKIN
				GEO 1670	GRUBAUGH	PHILIP	L
				GEO 2282	GULBRANDSEN	ROBERT	A
				GEO 1657	GULLIXSON	RICHARD	L
				GEO 2049	GUNDERSEN	JAMES	N
				GEO 595	GUTHRIE	PATRICK	JAMES
GEO 2245	EATON	EUGENE	C	GEO 5012	HAAS	STEPHEN	ANTHONY
GEO 4564	ECHOLS	THOMAS	JOHN	GEO 724	HAENGGI	WALTER	TIFFANY
GEO 632	ECKHART	RICHARD	ALAN	GEO 2354	HAFENBRACK	JAMES	H
GEO 2381	ECKIS	ROLLIN	P	GEO 1624	HAFFER	EDWARD	
GEO 5117	EDELMAN	STEPHEN	HAROLD	GEO 508	HAHN	PETER	HAMILTON
GEO 1550	EHRREICH	ALBERT	L	GEO 2573	HALPENNY	LEONARD	C
GEO 5324	EICHE	GREG		GEO 1828	HALPIN	ROBERT	T
GEO 4127	ELLIS-MCNABOE	M	JANE	GEO 755	HAMANN	SIEGFRIED	HANS
GEO 3242	EMERSON	WILLIAM	DOUGLAS	GEO 2418	HANSEN	DOUGLAS	E
GEO 4822	ENGH	KENNETH	RAYMOND	GEO 1724	HANSEN	WILLIAM	R
GEO 2792	ENGSTROM	DAVID	B	GEO 2319	HARLEY	WILLIAM	F
GEO 4136	ESTILL	MARTIN	DOUGLAS	GEO 1065	HARLOW	GEORGE	RICHARDSON III
GEO 326	EYMANN	JAMES	L	GEO 4058	HARMAN	HOWARD	DANIEL JR
				GEO 2073	HARRELL	HUNTER	C
				GEO 824	HART	ORVILLE	DORWIN
GEO 4949	FAIKE	ELISE	Y	GEO 1813	HARTY	RICHARD	F
GEO 6464	FAIRBANKS	PAUL	E.	GEO 2133	HEADLEY	JOSEPH	B JR
GEO 573	FARINA	ROBERT	JOHN	GEO 5094	HECKENDORN	SCOTT	WALLACE
GEO 5873	FAUSTINI	JOHN		GEO 2697	HENDRICKSON	IAN	D
GEO 1145	FELDHAUSEN	PETER	HOMER	GEO 5776	HENGESH	JAMES	VICTOR
GEO 2868	FENSKE	PAUL	R	GEO 2638	HENLEY	AUBREY	D
GEO 2795	FILLIPPONE	WALTER	R	GEO 4273	HENRICH	CATHERINE	ANNE
GEO 5242	FINDER	KEVIN	BRUCE	GEO 835	HERSHEY	ALAN	RICHARD
GEO 2853	FISH	JOHN	L	GEO 90	HESTER	RICHARD	LEE
GEO 1886	FISK	ELWIN	L	GEO 708	HEUSINGER	VICTOR	
GEO 1161	FISSELL	DONALD	EVAN	GEO 4876	HEYMAN	OSCAR	GLENN
GEO 2189	FLEMING	FREDERICK	A	GEO 668	HICKOK	EUGENE	ARCHIBALD
GEO 6591	FLEXSER	STEVEN		GEO 2808	HICKS	BILLIE	G
GEO 2006	FLOYD	JOE	W	GEO 515	HIGGINS	JAMES	WOODROW
GEO 403	FOGLE	GERALD	HOWARD	GEO 1627	HILL	MARIE	CLARK
GEO 2336	FORBES	JAMES	MC LAREN	GEO 4413	HINCKLEY	BERN	S
GEO 116	FORD	ROBERT	SIMPSON	GEO 3139	HOBBS	CARL	
GEO 2195	FOSTER	HELEN	L	GEO 2528	HODGES	CARROLL	A
GEO 1918	FOWLER	JACK	D				
GEO 1384	FOX	G	SIDNEY				
GEO 3008	FOX	KENNETH	S				
GEO 1666	FREI	LOUIS	R				
GEO 5171	FRIEND	STEPHANIE	RIESS				

CALIFORNIA GEOLOGISTS AND GEOPHYSICISTS

WINTER 1998

GEO 2798	HOEFFERLE	JOHN	F		GEO 494	KOENIG	JAMES	BENNETT	
GEO 1002	HOFFMAN	ROY	ARNOLD	JR	GEO 5488	KOWALSKI	JOHN	F	
GEO 3243	HOLCK	ALFRED	JOHN JULIAN		GEO 609	KRAFT	PAUL	H	
GEO 2439	HOLLAND	JASPER	L		GEO 2303	KROGSENG	BRIAN	L	
GEO 5344	HOLLIDAY	JOSEPH	W		GEO 5469	KROTSEK	DONALD	J	
GEO 3821	HOLLY	JAMES	B		GEO 2491	KUENZI	LAURENCE	M	
GEO 4693	HOLMES	THOMAS	CONNOR		GEO 3223	KUNIYOSHI	SHINGI		
GEO 4037	HOLZHAUSEN	GARY	R						
GEO 3019	HOLZMAN	JOHNSTON	E		GEO 3473	LA FOUNTAIN	LESTER	JAMES	
GEO 876	HORN	ANCEL	DAN		GEO 4504	LA FRANCHI	STEVEN	E	
GEO 845	HOSE	RICHARD	KENNETH		GEO 3106	LAIRD	RAYMOND	T	
GEO 2760	HOSKINS	ERNEST	G		GEO 1534	LAMB	ROBERT	A	
GEO 4363	HOVLAND	R	DAVID		GEO 158	LANDE	DAVID	PETER	
GEO 1847	HOWE	RICHARD	H		GEO 2925	LANPHERE	MARVIN	A	
GEO 4258	HUBER	WALTER	FRANKLIN		GEO 885	LANTZ	ROBERT	J	
GEO 6482	HUFTILE	GARY	JOHN		GEO 4223	LATTU	ANDREW	C	
GEO 115	HULL	ARTHUR	MORRIS		GEO 3912	LAUGHON	ROBERT	BUSH	
GEO 3244	HUNT	ROY	EUGENE		GEO 1897	LE ROY	WILLIAM	H	
GEO 3503	HUNT	TAYLOR	DWIGHT		GEO 4609	LEBLANC	JEFFREY	JOSEPH	
GEO 3310	HURLEY	ROBERT	JOSEPH		GEO 1017	LEE	CHARLES	VINCENT	
GEO 3180	HUSSAIN	MOINUDDIN	SYED		GEO 531	LEFFINGWELL	HARRY	ALDEN	
					GEO 5163	LEISCHER	MEREDITH	C	
GEO 1269	IRWIN	WILLIAM	P		GEO 2242	LEKAS	MITCHELL	A	
GEO 2759	IWANAGA	HIDEO			GEO 1012	LEVERETT	BENJAMIN	DUWARD	
					GEO 2090	LEWIS	ARTHUR	V	JR
GEO 2484	JACOBSON	JOHN	B		GEO 3040	LICASTRO	P	H	
GEO 5483	JANOWIAK	MATTHEW	J		GEO 5489	LINDSAY	CHARLES	S	
GEO 2207	JANSEN	GERHARD	C J		GEO 457	LINDSAY	DONALD	RANSOM	
GEO 5811	JEFFERS	MARK	HAMILTON		GEO 2169	LLEWELLYN	CLEMENT	M	JR
GEO 823	JENKINS	ROBERT	DAVID		GEO 770	LOFGREN	BENJAMIN	E	
GEO 2702	JEPSEN	ANDERS	FREDE DR		GEO 1089	LOGSDON	DONALD	EUGENE	
GEO 3003	JOHNSON	ARVID	M		GEO 5826	LOMBARD	JAMES	P	
GEO 4370	JOHNSON	CADY	LEONARD		GEO 3213	LONG	GEBHARD	J	
GEO 2029	JOHNSON	JOSEPH	A		GEO 1169	LORENS	PHILIP	J	
GEO 2508	JOHNSON	LYNN	A		GEO 122	LOUGH	CHARLES	F	
GEO 4553	JOHNSON	RICHARD	J		GEO 3901	LUCKETT	JOSEPH	WHEELER	JR
GEO 263	JOHNSON	WILLIAM	SUNDSTROM		GEO 4695	LUETHE	RONALD	D	
GEO 2102	JOHNSTON	ELIZABETH	J		GEO 3865	LUSTER	GORDON	RAY	
GEO 1986	JONES	BENJAMIN	F		GEO 144	LYDON	PHILIP	ANDREW	
GEO 1115	JONES	BOBBY	CARL		GEO 2113	LYNCH	MATTHEW	J	
GEO 6070	JONES	DAVID	P		GEO 2224	LYON	RONALD	J P	
GEO 809	JONES	KENNETH							
GEO 5396	JORGENSEN	MICHAEL	RAY		GEO 4316	MAC KINNON	CINDA	CRABBE	
GEO 2871	JUNG	KEITH	D		GEO 4400	MAC KINNON	THOMAS	CLARK	
					GEO 3241	MACHOVEC	MARVIN	ANTHONY	
GEO 664	KALIN	DANIEL	C		GEO 924	MACKAY	SHERMAN		
GEO 5949	KANDEL	ANDREW	WILLIAM		GEO 2520	MACLEOD	THOMAS		JR
GEO 2324	KANE	JOHN	K	II	GEO 1433	MAGILL	ELWIN	A	
GEO 1286	KAPPELER	NEAL	JACK		GEO 2519	MALEY	RICHARD	P	
GEO 514	KARP	STANLEY	EDWARD		GEO 2650	MALLOY	RICHARD	J	
GEO 1092	KASKA	HAROLD	VICTOR		GEO 2953	MANN	HERBERT		
GEO 3313	KAUFMAN	MORRIS	ARNOLD		GEO 666	MANNING	JOHN	C	
GEO 614	KEEGEL	CHARLES	PETER		GEO 2363	MANNION	LAWRENCE	E	
GEO 2344	KELLEY	FREDERIC	R		GEO 5001	MANSON	ROBERT	DENYS	
GEO 476	KENNETT	WILLIAM	ERIC		GEO 6053	MARCUS	BARRY	ISAAC	
GEO 4512	KENT	ADRIAN	WAYNE		GEO 2986	MARIE	JAMES	RUE	
GEO 4395	KENT	MAVIS	DIANE		GEO 1362	MARIER	ELBERT	L	
GEO 1182	KIENZLE	ROBERT	C		GEO 5924	MARINAI	ROBERT	KEITH	
GEO 928	KIERSCH	GEORGE	ALFRED		GEO 2613	MARRALL	GERALD	E	
GEO 1740	KILMER	FRANK	H		GEO 2412	MARTIN	BRUCE	D	
GEO 4164	KIMMEL	RICHARD	E		GEO 5132	MARTIN	DANIEL	CHARLES	
GEO 4434	KING	DAVID	ALEXANDER		GEO 2421	MARTIN	ROGER	C	
GEO 1342	KIRKPATRICK	JOHN	CURTIS		GEO 1499	MASON	HUGH	C	
GEO 4956	KITTLESON	KENDALL	LLOYD		GEO 3131	MATHISEN	IRWIN	WALD	JR
GEO 3892	KLAUBER	WILLIAM	PAUL		GEO 370	MATJASIC	WALLACE	LEE	
GEO 1680	KNITTEL	DEWEY	W		GEO 6462	MAURATH	GARRY	C.	
GEO 2452	KOCH	ROBERT	W		GEO 1414	MAXWELL	ERNEST	P	
					GEO 2426	MAYEDA	SHIGEO	H	

CALIFORNIA GEOLOGISTS AND GEOPHYSICISTS

WINTER 1998

GEO 1807	MAYTUM	JAMES	R		GEO 1423	OBERSTE-LEHN	DEANE	
GEO 3009	MC ANENY	COLIN	C		GEO 4944	OLSON	DANIEL	JOSEPH
GEO 1140	MC BRIDE	DOUGLAS	L	JR	GEO 6068	OPFEL	WILLIAM	JOSEPH
GEO 2593	MC CANN	LAUREN	B		GEO 2693	ORIARD	LEWIS	L
GEO 2712	MC CAULEY	CAMILLA	K		GEO 4014	ORR	WILLIAM	ROBERT
GEO 1733	MC CLELLAND	ELVER	J		GEO 312	ORVIS	CHARLES	WARREN
GEO 2185	MC CORMICK	JOHN	J		GEO 4894	OSBORNE	GAIL	KIRCHNER
GEO 82	MC COY	FREDERICK	MARSHALL		GEO 4497	OTTO	BRUCE	R
GEO 1674	MC CRAE	ROBERT	O					
GEO 1232	MC DOWELL	ROBERT	WRIGHT	JR				
GEO 2383	MC FARLAN	EDWARD		JR	GEO 591	PADICK	JAMES	
GEO 2662	MC FARLAND	LEE	C		GEO 2260	PAGE	LEO	M
GEO 2504	MC GILVARY	FRANK	M		GEO 463	PARKER	BEN	HUTCHISON JR
GEO 3198	MC GRATH	PATRICK	BERNARD		GEO 512	PARKER	CLAUDE	B
GEO 343	MC GREGOR	ALEXANDER	ANDERSON		GEO 3509	PATCHICK	PAUL	FRANCIS
GEO 54	MC HURON	CLARK	E		GEO 2134	PATTEN	PHILIP	R
GEO 1462	MC INTYRE	JAMES	R		GEO 230	PATTERSON	PETER	VOSPER
GEO 2560	MC LEOD	MALCOLM	K		GEO 4503	PAUKSTAITIS	ERIC	JOHN
GEO 1583	MC VEY	HAL	E		GEO 855	PAUL	ROBERT	GERALD
GEO 397	MELICKIAN	GARY	EDWARD		GEO 917	PAULSEN	WESSLEY	WM
GEO 2955	MERRIAM	RICHARD	H		GEO 3302	PAYTON	CLIFFORD	CHARLES
GEO 904	MERRITT	ANDREW	HUTCHEON		GEO 4881	PEARGIN	THOMAS	R
GEO 2262	MESSINGER	CURTIS			GEO 1110	PELLINE	JOSEPH	EMMETT
GEO 290	MEYER	WILLIS	G		GEO 2947	PETERS	FORREST	DONALD
GEO 3576	MIKES	OTTO			GEO 2834	PEWE	TROY	L
GEO 3315	MILLER	CHARLES	PARKER		GEO 2293	PICHEL	GEORGE	B
GEO 2020	MILLER	PETER	L		GEO 2817	PILLING	JOHN	M
GEO 3342	MILLS	MICHAEL	FREDERIC		GEO 216	PINCKNEY	CHARLES	JERRY
GEO 4510	MILNE	P	CLINTON		GEO 727	PLATT	WALLACE	SIMMONS
GEO 922	MILOW	EDGAR	D		GEO 2769	POHOPIEN	KAZIMIERZ	M
GEO 5840	MINIER	JEFFRIE	DONALD		GEO 800	POINTER	GARY	NEAL
GEO 6073	MODROO	ELTON	ROBERT		GEO 1039	PONTIUS	DAVID	CLAY
GEO 1958	MOENING	HAROLD	J		GEO 2933	POTTS	NEAL	H
GEO 2684	MONDARY	FRANK	P		GEO 5296	PREMZIC	SHARON	H
GEO 2632	MOORE	C	VICTOR	JR	GEO 715	PRESTHOLT	PAUL	THEODORE
GEO 2448	MOORE	GEORGE	T		GEO 314	PRICE	CHARLES	EDGAR
GEO 1914	MORGANS	MICHAEL	W		GEO 5790	PRICE	RENE	M
GEO 1313	MORRISON	ROBERT	HYDE		GEO 1503	PRINDLE	ROBERT	O
GEO 1360	MORRISON	ROBERT	R		GEO 2369	PRUETT	FRANK	D
GEO 2690	MORTON	DOUGLAS	M		GEO 687	PURCELL	BRUCE	GORDON
GEO 3959	MULDER	JONATHAN	HENRI	JR	GEO 500	PYLE	WILLIAM	DUNCAN JR
GEO 2276	MURPHY	JOHN	THOMAS		GEO 3360	PYNE	JAMES	E
GEO 3193	MURPHY	MICHAEL	ARTHUR					
GEO 870	MUSGROVE	CARL	D					
					GEO 5846	QUINN	MICHAEL	JOHN
					GEO 1049	QUINN	WENDELL	FRANCIS
GEO 436	NAIR	JACK	DONALD					
GEO 3151	NAPP	DONALD	EDWARD					
GEO 52	NELSON	EUGENE	ALLAN		GEO 2139	RADTKE	ARTHUR	S
GEO 1865	NELSON	KEITH	H		GEO 1819	RAGAN	DONAL	M
GEO 2641	NELSON	WILLARD	T		GEO 3534	RAMSEY	ROBERT	HOWARD
GEO 1693	NEUFELD	ALBERT	C		GEO 2516	RAND	LE	ROY E
GEO 4877	NEUVIRTH	LAWRENCE	LEE		GEO 3618	RANDALL	RICHARD	GERARD
GEO 2610	NEWMAN	FREDERICK	G		GEO 1637	RATHBONE	JOHN	H
GEO 2373	NEWMAN	JOSEPH	L		GEO 2315	RAYMOND	RICHARD	H
GEO 1529	NICHOLERIS	NESTOR			GEO 464	REDIN	TOM	W
GEO 236	NICHOLS	DONALD	R		GEO 524	REDMOND	ROBERT	LAWRENCE
GEO 862	NICKERSON	KENNETH	WESLEY		GEO 2135	REED	BILL	K
GEO 3350	NICKS	RONALD	ROY		GEO 3214	REED	DONALD	E
GEO 118	NIGRA	JOHN	OSCAR		GEO 1475	REIL	JAMES	W
GEO 3287	NISCO	JOHN	FULCO ADRIA		GEO 2996	REIMNITZ	ERK	
GEO 1216	NIXON	DAVID	DUNDONALD		GEO 2506	REISS	WALTER	F JR
GEO 1346	NOLAN	DANIEL	B		GEO 901	REMSON	IRWIN	
GEO 5770	NOLLER	JAY	STRATTON		GEO 3232	RENGA	ALVILS	DRUVVALDIS
GEO 1785	NORMAN	ROBERT	R		GEO 5569	RENNER	JAMES	F
GEO 5561	NULTY	GARY	E		GEO 85	RENNIE	ERNEST	WALTER JR
GEO 1824	NUNN	BERT	P		GEO 2837	RENZ	CLYDE	E JR
					GEO 2410	REYNOLDS	DON	W
					GEO 131	REYNOLDS	SARGENT	THURBER

CALIFORNIA GEOLOGISTS AND GEOPHYSICISTS

WINTER 1998

GEO 874	RHODES	JAMES	A		GEO 4357	SMITH	MARK	ELIOT	
GEO 2475	RICE	SALEM	J		GEO 174	SMITH	ROBERT	FARQUHAR	
GEO 5656	RICHARDS	ALEXANDER	MORENO		GEO 3455	SOROOS	RONALD	LEIF	
GEO 284	RICHARDS	JAMES	WARD		GEO 2433	SPRINKEL	ROBERT	L	JR
GEO 5657	RIDDELL	EDWARD	C		GEO 5245	SPYCHER	NICOLAS	F	
GEO 881	RITZIUS	DEVAUN	ERVIN		GEO 1514	SQUYRES	COY	H	
GEO 2355	ROBBINS	STEPHEN	L		GEO 2818	STANSFIELD	ROBERT	G	
GEO 492	ROBERTS	DALE	L		GEO 5513	STANTON	PETER	T	
GEO 2069	ROEN	JOHN	B		GEO 1202	STEARNS	CHARLES	EDWARD	
GEO 2420	ROSS	JOHN	H		GEO 4266	STERLING	ROBERT	HAMLIN	JR
GEO 2724	ROSSFELDER	ANDRE	M		GEO 3013	STEWART	KEITH	E	
GEO 3911	ROSTAD	ORA	HERBERT		GEO 826	STINEMEYER	EDWIN	H	JR
GEO 2182	ROTH	JOHN	N		GEO 4593	STOLZMAN	ROBERT	A	
GEO 975	ROTH	LESTER	HENRY		GEO 3341	STONE	RANDOLPH		
GEO 1555	ROTHERMEL	RAYMOND	V		GEO 124	STRAUSBERG	SANFORD	IRWIN	
GEO 416	ROTTWEILER	KURT	ANTON		GEO 2464	STUART-ALEXANDER		DESIREE	E
GEO 4028	ROUSE	JIM	VAY		GEO 4452	SULLIVAN	CLAY	R	
GEO 4664	ROWLAND	BRET	WARD		GEO 859	SUMMERS	WILLIAM	KELLY	
GEO 2639	RUEDE	GEORGE	M		GEO 946	SWAN	CALVIN	H	
GEO 2629	RUTHERFORD	VERNON	E		GEO 3928	SWARZENSKI	WOLFGANG	VICTOR	
GEO 5222	RUTLEDGE	JOHN	CARLETON		GEO 945	SWEENEY	GERALD	THORNTON	
					GEO 387	SWEENEY	JAMES	FRANCIS	
					GEO 1265	SWINNEY	C	MELVIN	
					GEO 3439	SYPTAK	JOHN	BENNETT	
GEO 241	SALTZMAN	DAVID							
GEO 1926	SALVESON	JAMES	O		GEO 3565	TAGGART	GARY	BROKAW	
GEO 2218	SANEM	ROBERT	E		GEO 4710	TAYLOR	FRED	ERICKSON	
GEO 4616	SANGINES	EUGENIA	MARIA		GEO 1353	TAYLOR	JAMES	RICHARD	
GEO 2844	SANGUINE	WILLIAM	L		GEO 2846	THIES	RICHARD	O	
GEO 4917	SAUCK	JEFFERY	LOUIS		GEO 592	THOMAS	WILL	ARCHIE	
GEO 767	SAUNDERS	NORRIS	EDMOND		GEO 3746	THOMPSON	GARY	GENE	
GEO 1190	SCANLIN	DONALD	GRAY		GEO 2615	THOMPSON	JAMES	V	
GEO 1038	SCHIDECKER	WILLIAM	RAY		GEO 6459	THOMPSON	SCOTT	D.	
GEO 450	SCHERB	IVAN	VICTOR		GEO 2708	THORUP	RICHARD	R	
GEO 4414	SCHIPPER	MARK	RAY		GEO 340	THREET	RICHARD	LOWELL	
GEO 3248	SCHMIDT	HAROLD	ANDREW		GEO 415	TIDYMAN	THOMAS	CARSON	
GEO 3996	SCHMIDT	RICHARD	ARTHUR		GEO 4603	TIGHT	DAVID	CALLANDER	
GEO 1521	SCHMIDT	RONALD	G		GEO 909	TIMBERLAKE	LYLE	LESLIE	
GEO 6048	SCHNIEWIND	ERIC			GEO 3916	TITUS	FRANK	B	JR
GEO 3022	SCHRECONGOST	MILFORD	M		GEO 1772	TODHUNTER	JOHN	N	
GEO 1748	SCHROEDER	LEW	G		GEO 6296	TOMLIN	CHRISTOPHER	LLOYD	
GEO 1247	SCOTT	ANDREW	KAJATI		GEO 5665	TONEY	KENNETH	CHARLES	
GEO 4329	SCOTT	CHRISTINA	MARIE		GEO 3920	TRAPP	JOHN	S	
GEO 497	SCOTT	HARRISON	STANLEY		GEO 852	TREADWAY	JACK	EVERETT	
GEO 288	SCOTT	ROBERT	BROWN		GEO 4093	TRIMBLE	JOHN	WILLIAM	
GEO 1527	SCURY	VINCENT	F		GEO 1834	TROTTER	JAMES	R	
GEO 543	SELTZER	ROBERT	ALAN		GEO 170	TURNER	FRANCIS	EARL	
GEO 6318	SEMINARA	JOHN	ADRIAN						
GEO 2828	SERAFIN	JOHN	R						
GEO 958	SEVERY	CHARLES	LUTHER						
GEO 2942	SEWELL	CHARLES	R						
GEO 6370	SHALER	DAVID	IVAN						
GEO 3823	SHEARER	JOSEPH	E		GEO 685	UNDERWOOD	LLOYD	B	
GEO 3100	SHEEHAN	JACK	R						
GEO 1518	SHERLOCK	MAUREEN	G						
GEO 5512	SHERROD	THOMAS	D		GEO 310	VAN ARSDALE	BYRON	EUGENE	JR
GEO 2777	SHIELDS	JAY	M		GEO 5694	VANDEVENTER	BRUCE	ROBERT	
GEO 271	SIEBENALER	WAYNE	T		GEO 5521	VARGA	ROBERT	JOSEPH	
GEO 1120	SIECK	HERMAN	CLIFFORD		GEO 5046	VARGAS	JOHN	FRANK	
GEO 2481	SILCOX	JOHN	H		GEO 2743	VEATCH	MAURICE	D	
GEO 2154	SIMMONS	EDWARD	T		GEO 38	VILLANUEVA	LOUIS	FRANK	
GEO 394	SIMS	JOHN	QUENTIN						
GEO 4801	SINGER	MICHAEL	P						
GEO 5092	SKELLY	RAYMOND	LEE		GEO 2211	WAGNER	HOLLY	C	
GEO 2725	SKILES	REGINALD			GEO 1084	WAGNER	PAUL	GERALD	
GEO 2883	SLEMMONS	DAVID	B		GEO 1717	WALDRON	HOWARD	H	
GEO 959	SMITH	CHARLES	WILLIAM		GEO 1031	WALLACE	ROBERT	EARL	
GEO 1186	SMITH	DUANE	D		GEO 1822	WALLER	TERRENCE		
GEO 2676	SMITH	FRANK	W		GEO 2496	WARD	THOMAS	E	
GEO 96	SMITH	FRED	EMORY	JR	GEO 744	WARREN	ALBERT	DAVID	JR
GEO 2486	SMITH	LARRY	M		GEO 1895	WARREN	ALTON	L	

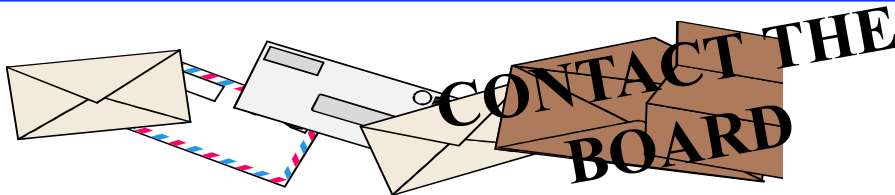
CALIFORNIA GEOLOGISTS AND GEOPHYSICISTS WINTER 1998

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CALIFORNIA GEOLOGISTS AND GEOPHYSICISTS

WINTER 1998

GP	923	IHNEN	STEVEN	MARK				
GP	661	ISHERWOOD	WILLIAM	FRANK				
GP	512	IYER	HARIHARAIYER	MAHADEVA				
GP	14	JOHNSON	WILLIAM	SUNDSTROM				
GP	254	JONES	BOBBY	CARL				
GP	357	JONES	H	JOE				
GP	421	JONES	STANLEY	BENNETT				
GP	569	KERR	JAMES	ERNEST				
GP	552	KICK	JOHN	FREDERICK				
GP	110	KING	KENNETH	WALTER				
GP	796	KOSTRA	WALTER					
GP	535	KUHLMAN	WERNER	HEINZ				
GP	151	KURFESS	JAMES	ADE				
GP	334	LA RUE	ROBERT	ORVILLE				
GP	315	LACHENBRUCH	ARTHUR	HEROLD				
GP	816	LEVINE	EDWARD	NEIL				
GP	834	LICASTRO	P	H				
GP	419	LONG	GEBHARD	J				
GP	736	MACHNIZH	CAMILLO					
GP	652	MAJOR	MAURICE	WILSON				
GP	706	MALEY	RICHARD	PHILLIP				
GP	328	MANERA	PAUL	A				
GP	88	MARLOW	MICHAEL	STEWART				
GP	730	MARTIN	RICHARD	GEORGE				
GP	165	MATJASIC	WALLACE	LEE				
GP	801	MAXWELL	RICHARD	A				
GP	59	MC BEATH	ROBERT	GORDON				
GP	138	MC CORMICK	JOHN	JAMES				
GP	364	MC DOUGALL	DONALD	STEWART				
GP	999	MC LAUGHLIN	KEITH	LYNN				
GP	549	METT	DENNIS	RICHARD				
GP	126	MIATECH	GERALD	JAMES				
GP	890	MIKULICH	MATTHEW	JONATHAN				
GP	626	MILLER	BOB	R				
GP	121	MILLER	CARTER	H				
GP	712	MILLER	DOUGLAS	FRANK				
GP	807	MORGAN	JAMES	DEXTER				
GP	945	MUIR	STEPHEN	GREGORY				
GP	686	NASON	ROBERT	D				
GP	827	NIENABER	JAMES	HENRY				
GP	896	NORTHROP	JOHN					
GP	851	NOWROOZI	ALI	ASGHAR				
GP	92	ORIARD	LEWIS	L				
GP	648	ORPHAL	DENNIS	LEE				
GP	23	PEACOCK	ELWIN	MERRILL				
GP	587	PERRY	CHARLES	CLAUDE	JR			
GP	635	PETERS	FORREST	DONALD				
GP	722	PETERSON	DONALD	JAMES				
GP	793	PETITPAS	JOSEPH	ELZEARD RON				
GP	676	PETTERSEN	ROBERT	WINTON				
GP	992	PHILLIPS	DAVE					
GP	677	PICKERING	CHARLES	GERALD				
GP	414	PLUTA	JOSEPH	STANLEY				
GP	345	PRESTHOLT	PAUL	THEODORE				
GP	39	PRICE	LEE	HAWKE				
GP	317	PRINDLE	ROBERT	ORVILLE				
GP	381	RAMO	ALAN	OLIVER				
GP	504	RAY	CLIFFORD	HARVEY				
GP	534	REESE	JOHN	RENOWDEN				
GP	761	ROBBINS	STEPHEN	LEROY				
GP	111	ROBERTS	RAYMOND	DALY				
GP	606	ROBIN	LEONARD	BERNARD				
GP	880	RODEICK	CRAIG	ALLEN				
GP	433	ROOKUS	JAMES	DUDLEY				
GP	559	ROSENBAUM	JOSEPH	HANS				
GP	38	RUPERT	GERALD	BRUCE				
GP	20	RYALL	ALAN	STUART	JR			
GP	379	SCHERB	IVAN	VICTOR				
GP	909	SCOTT	CHRISTINA	MARIE				
GP	938	SELOVER	MARC	HAVILAND				
GP	681	SHAFFER	WILLIAM	EMMETT				
GP	897	SHEPARD	JOHN	B	JR			
GP	605	SHERBURNE	ROGER	WAYNE				
GP	232	SIECK	HERMAN	CLIFFORD				
GP	32	SILVER	ELI	ALFRED				
GP	204	SLAVEN	THOMAS	LANE				
GP	671	SMITH	DAVID	ALEXANDER				
GP	729	SMITH	NEAL					
GP	438	STEPHENS	ELGAR	EARL				
GP	562	STROUD	WILLIAM	ALLEN				
GP	120	SUNDQUIST	JAMES	ERIC				
GP	87	TENG	TA-LIANG					
GP	392	TETT	HUBERT	FRANCIS				
GP	242	TIREY	GEORGE	B				
GP	628	TOWNSEND	DONALD	WILLIAM				
GP	658	TRAYNOR	JAMES	FRANCIS				
GP	547	URBAN	THOMAS	CHARLES				
GP	56	VAN REENAN	EARL	DUANE				
GP	339	WALKER	BOBBY	REGINALD				
GP	217	WARRICK	RICHARD	ELLSWORTH				
GP	139	WEAVER	RONALD	RAY				
GP	636	WIDEMAN	CHARLES	JAMES				
GP	818	WINTERS	PHILIP	REX				
GP	774	WOLFGANG	JAMES	LLOYD				
GP	509	WOODRUFF	EDWIN	CUSHING				
GP	342	WRIGLEY	WALLACE	WALTER				



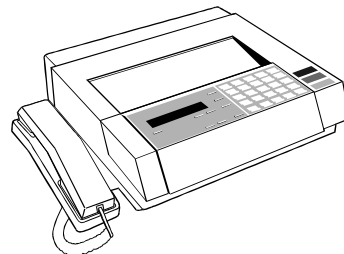
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